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**Title:** JP10297717A2: RACK FACILITY

**Derwent Title:** Shelf installation for goods supply and delivery - has controller which stops storage shelf at position wherein stoppage height of near-end side of shelf bottom is higher or lower than support height of roller conveyor during leaving or entering of goods [\[Derwent Record\]](#)

**Country:** JP Japan

**Kind:** A

**Inventor:** IMANAKA ATSUJI;

**Assignee:** DAIFUKU CO LTD  
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**Published / Filed:** 1998-11-10 / 1997-04-24

**Application Number:** JP1997000106517

**IPC Code:** B65G 1/127; A47B 49/00;

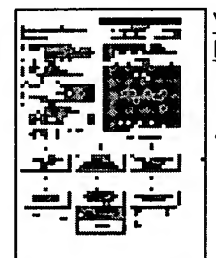
**Priority Number:** 1997-04-24 JP1997000106517

**Abstract:** PROBLEM TO BE SOLVED: To provide rack facilities which enables the easy and smooth carrying-in-and-out of articles.  
 SOLUTION: Plural housing racks 13 are moved on a vertical circulation passage 12, and the target housing rack 13 is stopped at a charging/discharging position A, so an article 15 is carried in-and-out. In this case, a carrying-in-and-out roller conveyor 28 to support and carry the article 15 to be carried in and out of the housing rack 13 is provided on an outer side position facing the circulation passage 12, a carrying out device 31 to push the article 15 in the housing rack 13 onto the carrying-in-and-out roller conveyor 28, the housing rack 13 is stopped at a position where a stop height H2 of the hand side end of a bottom member 16 of the housing rack 13 at the carrying-in-and-out position A is above a support height H1 of the carrying-in-and-out roller conveyor 28 at the time of carrying out, and in charging, the housing rack 13 is stopped at a position where the stop height H2 of the hand side end of the bottom member 16 of the housing rack 13 at the carrying-in-and-out position A becomes under the support height H1 of the carrying-in-and-out roller conveyor.

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**Family:** None

**Other Abstract Info:** None



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(11) Publication number:

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **09106517**(51) Intl. Cl.: **B65G 1/127 A47B 49/00**(22) Application date: **24.04.97**

(30) Priority:

(43) Date of application  
publication: **10.11.98**(84) Designated contracting  
states:(71) Applicant: **DAIFUKU CO LTD**(72) Inventor: **IMANAKA ATSUJI**

(74) Representative:

**(54) RACK FACILITY**

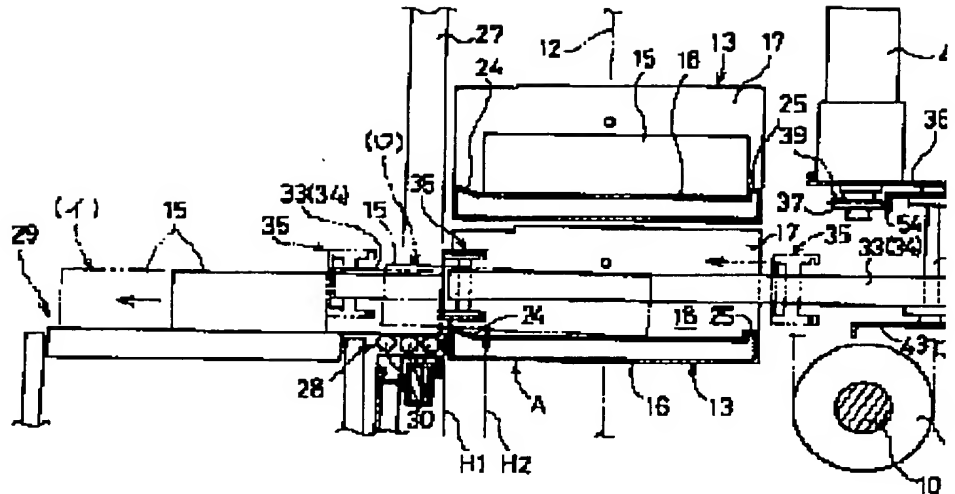
(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide rack facilities which enables the easy and smooth carrying- in-and-out of articles.

**SOLUTION:** Plural housing racks 13 are moved on a vertical circulation passage 12, and the target housing rack 13 is stopped at a charging/discharging position A, so an article 15 is carried in-and-out. In this case, a carrying-in-and- out roller conveyor 28 to support and carry the article 15 to be carried in and out of the housing rack 13 is provided on an outer side position facing the circulation passage 12, a carrying out device 31 to push the article 15 in the housing rack 13 onto the carrying-in-and-out roller conveyor 28, the housing rack 13 is stopped at a position where a stop height H2 of the hand side end of a bottom member 16 of the housing rack 13 at the carrying-in-and-out position A is above a support height H1 of the

carrying-in-and-out roller conveyor 28 at the time of carrying out, and in charging, the housing rack 13 is stopped at a position where the stop height H2 of the hand side end of the bottom member 16 of the housing rack 13 at the carrying-in-and-out position A becomes under the support height H1 of the carrying-in-and-out roller conveyor.

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